

## National Functional Guidelines Report # 3

19:23 Wed, Apr 1, 2009

Lab MITKEM (Mitekem Corporation) SDG Y4NB2

Case 38274

Contract EPW05030

Region 9

DDTID 70218

SOW SOM01.2

**Data Review Results**

Modified by ESAT. Changes (\*) are based on hardcopy Tier 1A forms review (of VOA\_TRACE data only) and shown as ~~struckthrough~~ and **underline bold**. Reviewer: Santiago Lee (EPA Contract EPW06041, TDF 00405051, ICF International). Date: 05/11/09. DCN: 10725.

- \* **Results above calibration range, denoted by an "E" flag, are qualified J (estimated) in Amended Table 1A. Results from the diluted analyses should be used.**

**Data users should note that the diluted concentrations for some analytes in following samples are significantly lower than the undiluted concentrations.**

<u>Sample</u>	<u>Analyte</u>	<u>Undiluted Conc., µg/L</u>	<u>Diluted Conc., µg/L</u>
<b>Y4NC4</b>	<b>Trichlorofluoromethane</b>	<b>31</b>	<b>14</b>
<b>Y4NC4</b>	<b>1,1,2-Trichloro-1,2,2-trifluoromethane</b>	<b>79</b>	<b>30</b>
<b>Y4NC4</b>	<b>Tetrachloroethene</b>	<b>130</b>	<b>74</b>
<b>Y4NC5</b>	<b>Tetrachloroethene</b>	<b>120</b>	<b>84</b>

- \* **The following results are qualified UJ or J (estimated) in Amended Table 1A due to low relative response factors (RRFs).**
- Acetone in samples Y4NC3, Y4NC2DL, Y4NC4DL, Y4NC5DL, and Y4NC6DL; method blanks VBLKN6 and VBLKS6; and storage blank VHBLKS6**
  - 2-Butanone in all samples, all method blanks, and storage blank VHBLKS6**
  - 1,2-Dibromo-3-chloropropane in samples Y4NB3DL, Y4NB4DL, Y4NC3, Y4NC2DL, Y4NC4DL, Y4NC5DL, and Y4NC6DL; method blanks VBLKW5, VBLKN6, and VBLKS6; and storage blank VHBLKS6**
- RRFs <0.05 and >0.01 were reported for acetone, 2-butanone, and 1,2-dibromo-3-chloropropane in initial calibrations and continuing calibration verifications (CCVs) (Region 9 modification). Since qualified results are nondetected, false negatives may exist.**

**The R-flags for dichlorodifluoromethane, chloromethane, bromomethane, chloroethane, and carbon disulfide in sample Y4NB3 are sustained since the recovery for DMC chloroethane-d5 is <20.0% (18%).**

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**Data Review Results**

## Blanks

<b>Blanks</b>		<b>VOA_TRACE</b>
VTLB11	The following trace volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank has common contaminant analyte concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.	
	<b>Methylene chloride</b> Y4NC2DL, Y4NC3, Y4NC4DL, Y4NC5DL, Y4NC6DL	
<b>Blanks</b>		<b>VOA_TRACE</b>
VTLB44	The following trace volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank has common contaminant analyte concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.	
	<b>Methylene chloride</b> Y4NC2DL, Y4NC3, Y4NC4DL, Y4NC5DL, Y4NC6DL	

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**Data Review Results**

## Continuing Calibration Verification

Continuing Calibration Verification		VOA_SIM
VTC14	The following trace volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.	
	VBLK6J, VBLKM6, VHBLKM6, Y4NB9, Y4NC0, Y4NC1, Y4NC2, Y4NC3, Y4NC4, Y4NC5, Y4NC6, Y4NC7	
	<b>1,2-Dibromo-3-chloropropane</b> VSTD0.56J, VSTD0.5M6	
	VBLK6J, VBLKM6, VHBLKM6, Y4NB9, Y4NC0, Y4NC1, Y4NC2, Y4NC3, Y4NC4, Y4NC5, Y4NC6, Y4NC7	
Continuing Calibration Verification		VOA_TRACE
VTC8	The following trace volatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.	
	VBLKV5, VBLKW5, Y4NB2, Y4NB3, Y4NB3DL, Y4NB4, Y4NB4DL, Y4NB5, Y4NB6, Y4NB7, Y4NB8, Y4NB9, Y4NC0, Y4NC1, Y4NC2, Y4NC4, Y4NC5, Y4NC6, Y4NC6MS, Y4NC6MSD, Y4NC7	
	<b>Bromoform</b> VSTD005W5	
	VBLKW5, Y4NB3DL, Y4NB4DL	
	<b>1,2,3-Trichlorobenzene</b> VSTD005V5	
	VBLKV5, Y4NB2, Y4NB3, Y4NB4, Y4NB5, Y4NB6, Y4NB7, Y4NB8, Y4NB9, Y4NC0, Y4NC1, Y4NC2, Y4NC4, Y4NC5, Y4NC6, Y4NC6MS, Y4NC6MSD, Y4NC7	

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**Data Review Results**

DMC/Surrogate

<b>DMC/Surrogate</b>	<b>VOA_TRACE</b>
VTDSS2	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	Y4NB3, Y4NB4, Y4NB5, Y4NB6, Y4NC4, Y4NC5, Y4NC6, Y4NC6MS, Y4NC6MSD
*	<b>1,1-Dichloroethene-d2</b> Y4NB3, Y4NB4, Y4NB6, Y4NC4, Y4NC5, Y4NC6, Y4NC6MS, Y4NC6MSD, <b><u>Y4NC6DL</u></b>
	1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene
	<b>Chloroform-d</b> Y4NC5, Y4NC6, Y4NC6MS, Y4NC6MSD
	1,1-Dichloroethane, Bromochloromethane, Bromoform, Chloroform, Dibromochloromethane
	<b>trans-1,3-Dichloropropene-d4</b> Y4NB5, Y4NC6, Y4NC6MS, Y4NC6MSD
	1,1,2-Trichloroethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene
<b>DMC/Surrogate</b>	<b>VOA_TRACE</b>
VTDSS3	The following trace volatile samples have one or more DMC/SMC recovery values is less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	Y4NB2, Y4NB4, Y4NC0
	<b>Chloroethane-d5</b> Y4NB2, Y4NB4
	Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane
*	<b>1,1,2,2-Tetrachloroethane-d2</b> Y4NB2, Y4NC0, <b><u>Y4NB3DL</u></b>
	1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane
<b>DMC/Surrogate</b>	<b>VOA_TRACE</b>
VTDSS5	The following trace volatile samples have DMC/SMC recoveries below the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified R.
	<b>Chloroethane-d5</b> Y4NB3
	Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane

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**Data Review Results**

## Detection Limit

Detection Limit	VOA_TRACE
VTDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	VBLKN6, VBLKS6, Y4NB3DL, Y4NB4DL, Y4NC0, Y4NC1, Y4NC2, Y4NC2DL, Y4NC3, Y4NC4, Y4NC4DL, Y4NC5, Y4NC5DL, Y4NC6DL, Y4NC7
	<b>Tetrachloroethene</b> Y4NC0, Y4NC7
	<b>cis-1,2-Dichloroethene</b> Y4NB3DL, Y4NB4DL, Y4NC2, Y4NC2DL, Y4NC4DL, Y4NC5DL, Y4NC6DL
	<b>Chloroform</b> Y4NC2, Y4NC2DL
	<b>Methylene chloride</b> VBLKN6, VBLKS6, Y4NC2DL, Y4NC3
	<b>1,1-Dichloroethane</b> Y4NC4, Y4NC5
	<b>Trichloroethene</b> Y4NC0, Y4NC1

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**Data Review Results**

## Initial Calibration

Initial Calibration	VOA_SIM
VTC15	The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	VBLK6J, VBLKJ6, VBLKM6, VHBLKM6, Y4NB2, Y4NB3, Y4NB4, Y4NB5, Y4NB6, Y4NB7, Y4NB8, Y4NB9, Y4NC0, Y4NC1, Y4NC2, Y4NC3, Y4NC4, Y4NC5, Y4NC6, Y4NC7
	<b>1,2-Dibromo-3-chloropropane</b> VSTD0.05J6, VSTD0.1J6, VSTD0.5J6, VSTD1.0J6, VSTD2.0J6
	VBLK6J, VBLKJ6, VBLKM6, VHBLKM6, Y4NB2, Y4NB3, Y4NB4, Y4NB5, Y4NB6, Y4NB7, Y4NB8, Y4NB9, Y4NC0, Y4NC1, Y4NC2, Y4NC3, Y4NC4, Y4NC5, Y4NC6, Y4NC7

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**Data Review Results**

## Matrix Spikes

Matrix Spikes		VOA_TRACE
VTMS2	*	The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified <b><u>The RPDs for 1,1-dichloroethene and trichloroethene are not meaningful because sample concentrations (148 ug/L and 256, respectively) are much higher than the spike concentration of 5.0 ug/L.</u></b>
		<b>1,1-Dichloroethene</b> Y4NC6MS, Y4NC6MSD
		<b>Trichloroethene</b> Y4NC6MS, Y4NC6MSD
Matrix Spikes		VOA_TRACE
VTMS3	*	The following trace volatile matrix spike/matrix spike duplicate samples have percent recoveries greater than the upper acceptance criteria. Detected compounds are qualified J. Nondetected compounds are not qualified <b><u>The recoveries for 1,1-dichloroethene and trichloroethene are not meaningful because sample concentrations (148 ug/L and 256, respectively) are much higher than the spike concentration of 5.0 ug/L.</u></b>
		<b>1,1-Dichloroethene</b> Y4NC6MS, Y4NC6MSD
		<b>Trichloroethene</b> Y4NC6MS, Y4NC6MSD

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**Data Review Results**

TIC

TIC	VOA_TRACE
VTIC2	A library search indicates a match below 85% for a TIC compound in the trace volatile sample. Detected compounds are qualified J. Nondetected compounds are not qualified.
	<b>Unknown-01</b> Y4NB6

## ANALYTICAL RESULTS

Case No. : 38274                      SDG No. : Y4NB2  
 Site : OMEGA CHEMICAL OU2  
 Lab : MITKEM LABORATORIES  
 Reviewer : Santiago Lee, ESAT/LDC  
 Date : 05/11/09

Table 1A

**QUALIFIED DATA**  
**Concentration in ug/L**

**Analysis Type :** Trace Level Water Samples  
 for Trace Volatiles

Station Location :	57			58			59			60			61			62		
Sample ID :	Y4NB2			Y4NB3			Y4NB4			Y4NB5			Y4NB6			Y4NB7		
Collection Date :	3/13/2009			3/13/2009			3/13/2009			3/13/2009			3/13/2009			3/13/2009		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com															
Dichlorodifluoromethane	0.50U	UJ		0.50U	R		0.50U	UJ		0.50U	U		0.50U	U		0.50U	U	
Chloromethane	0.50U	UJ		0.50U	R		0.50U	UJ		0.50U	U		0.50U	U		0.50U	U	
Vinyl chloride	0.50U	U																
Bromomethane	0.50U	UJ		0.50U	R		0.50U	UJ		0.50U	U		0.50U	U		0.50U	U	
Chloroethane	0.50U	UJ		0.50U	R		0.50U	UJ		0.50U	U		0.50U	U		0.50U	U	
Trichlorofluoromethane	0.50U	U		17			15			0.50U	U		0.50U	U		0.50U	U	
1,1-Dichloroethene	0.50U	U		7.9	J		7.7	J		0.50U	U		15	J		0.50U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U	U		35E	J		33E	J		0.50U	U		0.50U	U		0.50U	U	
Acetone	5.0U	U																
Carbon disulfide	0.50U	UJ		0.50U	R		0.50U	UJ		0.50U	U		0.50U	U		0.50U	U	
Methyl acetate	0.50U	U																
Methylene chloride	0.50U	U																
trans-1,2-Dichloroethene	0.50U	U																
Methyl tert-butyl ether	0.50U	U																
1,1-Dichloroethane	0.50U	U		0.87			0.50U	U										
cis-1,2-Dichloroethene	0.50U	U		1.8	J		1.8	J		0.50U	U		4.3	J		0.50U	U	
2-Butanone	5.0U	UJ																
Bromochloromethane	0.50U	U																
Chloroform	0.50U	U		0.52			0.52			0.50U	U		0.50U	U		0.50U	U	
1,1,1-Trichloroethane	0.50U	U																
Cyclohexane	0.50U	U																
Carbon tetrachloride	0.50U	U																
Benzene	0.50U	U																
1,2-Dichloroethane	0.50U	U																
Trichloroethene	0.50U	U		57E	J		55E	J		0.50U	U		12			0.50U	U	
Methylcyclohexane	0.50U	U																

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274                      SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

**QUALIFIED DATA**  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location :	57			58			59			60			61			62		
Sample ID :	Y4NB2			Y4NB3			Y4NB4			Y4NB5			Y4NB6			Y4NB7		
Collection Date :	3/13/2009			3/13/2009			3/13/2009			3/13/2009			3/13/2009			3/13/2009		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com															
1,2-Dichloropropane	0.50U	U																
Bromodichloromethane	0.50U	U																
cis-1,3-Dichloropropene	0.50U	U																
4-Methyl-2-pentanone	5.0U	U																
Toluene	0.50U	U																
trans-1,3-Dichloropropene	0.50U	U																
1,1,2-Trichloroethane	0.50U	U																
Tetrachloroethene	0.50U	U		48E	J		44E	J		0.50U	U		6.2			0.50U	U	
2-Hexanone	5.0U	U																
Dibromochloromethane	0.50U	U																
1,2-Dibromoethane	0.50U	U																
Chlorobenzene	0.50U	U																
Ethylbenzene	0.50U	U																
o-Xylene	0.50U	U																
m,p-Xylene	0.50U	U																
Styrene	0.50U	U																
Bromoform	0.50U	U																
Isopropylbenzene	0.50U	U																
1,1,2,2-Tetrachloroethane	0.50U	UJ		0.50U	U													
1,3-Dichlorobenzene	0.50U	U																
1,4-Dichlorobenzene	0.50U	U																
1,2-Dichlorobenzene	0.50U	U																
1,2-Dibromo-3-chloropropane	0.50U	UJ		0.50U	U													
1,2,4-Trichlorobenzene	0.50U	U																
1,2,3-Trichlorobenzene	0.50U	UJ																
Vinyl chloride-d3	3.7			3.7			3.7			3.7			3.9			4.0		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274                      SDG No. : Y4NB2

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

Table 1A

**QUALIFIED DATA**  
Concentration in ug/L**Analysis Type :** Trace Level Water Samples  
for Trace Volatiles

Station Location :	57			58			59			60			61			62		
Sample ID :	Y4NB2			Y4NB3			Y4NB4			Y4NB5			Y4NB6			Y4NB7		
Collection Date :	3/13/2009			3/13/2009			3/13/2009			3/13/2009			3/13/2009			3/13/2009		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com															
Chloroethane-d5	3.2			0.88			3.4			4.6			3.8			4.4		
1,1-Dichloroethene-d2	3.2			6.6			6.5			3.9			9.8			3.3		
2-Butanone-d5	41			40			43			50			43			44		
Chloroform-d	4.9			5.0			5.1			5.7			4.9			5.1		
1,2-Dichloroethane-d4	5.0			5.2			5.2			6.1			5.2			5.2		
Benzene-d6	5.1			5.1			5.0			5.3			5.1			4.9		
1,2-Dichloropropane-d6	5.1			5.0			5.3			5.1			5.3			5.0		
Toluene-d8	5.0			4.9			5.1			5.1			4.9			4.5		
trans-1,3-Dichloropropene-d4	5.2			5.6			5.5			6.3			5.2			5.3		
2-Hexanone-d5	40			41			40			40			43			46		
1,1,2,2-Tetrachloroethane-d2	3.5			3.7			4.2			4.0			4.0			3.9		
1,2-Dichlorobenzene-d4	4.5			4.9			4.3			4.5			4.4			5.0		

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

**Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).**

## ANALYTICAL RESULTS

Case No. : 38274 SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

QUALIFIED DATA  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location :	63			64			65			66			67			68		
Sample ID :	Y4NB8			Y4NB9			Y4NC0			Y4NC1			Y4NC2			Y4NC3		
Collection Date :	3/13/2009			3/16/2009			3/16/2009			3/16/2009			3/16/2009			3/16/2009		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com															
Dichlorodifluoromethane	0.50U	U																
Chloromethane	0.50U	U																
Vinyl chloride	0.50U	U																
Bromomethane	0.50U	U																
Chloroethane	0.50U	U																
Trichlorofluoromethane	0.50U	U		0.50U	U		0.50U	U		1.4			2.4			0.66		
1,1-Dichloroethene	0.50U	U		0.50U	U		0.50U	U		1.1			1.4			1.6		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U	U		0.50U	U		0.50U	U		2.5			6.6			3.4		
Acetone	5.0U	U		5.0U	UJ													
Carbon disulfide	0.50U	U																
Methyl acetate	0.50U	U																
Methylene chloride	0.50U	U																
trans-1,2-Dichloroethene	0.50U	U																
Methyl tert-butyl ether	0.50U	U																
1,1-Dichloroethane	0.50U	U																
cis-1,2-Dichloroethene	0.50U	U		0.23J	J		0.68											
2-Butanone	5.0U	UJ																
Bromochloromethane	0.50U	U																
Chloroform	0.50U	U		0.21J	J		0.88											
1,1,1-Trichloroethane	0.50U	U																
Cyclohexane	0.50U	U																
Carbon tetrachloride	0.50U	U																
Benzene	0.50U	U																
1,2-Dichloroethane	0.50U	U																
Trichloroethene	0.50U	U		0.50U	U		0.38J	J		0.33J	J		22E	J		19		
Methylcyclohexane	0.50U	U																

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274                      SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

**QUALIFIED DATA**  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location :	63			64			65			66			67			68		
Sample ID :	Y4NB8			Y4NB9			Y4NC0			Y4NC1			Y4NC2			Y4NC3		
Collection Date :	3/13/2009			3/16/2009			3/16/2009			3/16/2009			3/16/2009			3/16/2009		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com															
1,2-Dichloropropane	0.50U	U																
Bromodichloromethane	0.50U	U																
cis-1,3-Dichloropropene	0.50U	U																
4-Methyl-2-pentanone	5.0U	U																
Toluene	0.50U	U																
trans-1,3-Dichloropropene	0.50U	U																
1,1,2-Trichloroethane	0.50U	U																
Tetrachloroethene	0.50U	U		0.50U	U		0.21J	J		1.2			4.7			13		
2-Hexanone	5.0U	U																
Dibromochloromethane	0.50U	U																
1,2-Dibromoethane	0.50U	U																
Chlorobenzene	0.50U	U																
Ethylbenzene	0.50U	U																
o-Xylene	0.50U	U																
m,p-Xylene	0.50U	U																
Styrene	0.50U	U																
Bromoform	0.50U	U																
Isopropylbenzene	0.50U	U																
1,1,2,2-Tetrachloroethane	0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U		0.50U	U	
1,3-Dichlorobenzene	0.50U	U																
1,4-Dichlorobenzene	0.50U	U																
1,2-Dichlorobenzene	0.50U	U																
1,2-Dibromo-3-chloropropane	0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U		0.50U	UJ	
1,2,4-Trichlorobenzene	0.50U	U																
1,2,3-Trichlorobenzene	0.50U	UJ		0.50U	U													
Vinyl chloride-d3	3.9			4.0			4.0			3.8			3.9			4.3		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274                      SDG No. : Y4NB2

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

Table 1A

**QUALIFIED DATA**  
Concentration in ug/L**Analysis Type :** Trace Level Water Samples  
for Trace Volatiles

Station Location :	63			64			65			66			67			68		
Sample ID :	Y4NB8			Y4NB9			Y4NC0			Y4NC1			Y4NC2			Y4NC3		
Collection Date :	3/13/2009			3/16/2009			3/16/2009			3/16/2009			3/16/2009			3/16/2009		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com															
Chloroethane-d5	4.4			3.9			3.9			4.6			4.7			4.5		
1,1-Dichloroethene-d2	3.3			3.2			3.3			3.8			3.8			3.3		
2-Butanone-d5	45			48			46			46			47			37		
Chloroform-d	5.1			5.3			5.3			5.1			5.2			4.4		
1,2-Dichloroethane-d4	5.3			5.4			5.2			5.0			5.4			4.4		
Benzene-d6	4.9			5.1			5.2			5.1			5.1			4.9		
1,2-Dichloropropane-d6	5.1			5.1			5.3			5.4			5.4			5.0		
Toluene-d8	4.9			4.9			5.0			4.9			5.0			4.8		
trans-1,3-Dichloropropene-d4	5.8			5.7			6.0			5.9			5.9			4.8		
2-Hexanone-d5	51			43			40			54			45			43		
1,1,1,2,2-Tetrachloroethane-d2	4.1			3.7			3.5			4.2			3.9			4.5		
1,2-Dichlorobenzene-d4	4.2			4.9			4.1			4.5			4.4			5.2		

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

**Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).**

## ANALYTICAL RESULTS

Case No. : 38274 SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

QUALIFIED DATA  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location :	69			70			71			72			Y4NB3DL			Y4NB4DL		
Sample ID :	Y4NC4			Y4NC5			Y4NC6			Y4NC7			5.0			5.0		
Collection Date :	3/16/2009			3/16/2009			3/16/2009			3/16/2009								
Dilution Factor :	1.0			1.0			1.0			1.0								
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com									
Dichlorodifluoromethane	0.50U	U		2.5U	U		2.5U	U										
Chloromethane	0.50U	U		2.5U	U		2.5U	U										
Vinyl chloride	0.50U	U		2.5U	U		2.5U	U										
Bromomethane	0.50U	U		2.5U	U		2.5U	U										
Chloroethane	0.50U	U		2.5U	U		2.5U	U										
Trichlorofluoromethane	31E	J		30E	J		64E	J		0.50U	U		20D			22D		
1,1-Dichloroethene	59E	J		56E	J		150E	J		0.50U	U		9.8D			11D		
1,1,2-Trichloro-1,2,2-trifluoroethane	79E	J		78E	J		170E	J		0.50U	U		39D			45D		
Acetone	5.0U	U		25U	U		25U	U										
Carbon disulfide	0.50U	U		2.5U	U		2.5U	U										
Methyl acetate	0.50U	U		2.5U	U		2.5U	U										
Methylene chloride	0.50U	U		2.5U	U		2.5U	U										
trans-1,2-Dichloroethene	0.50U	U		0.50U	U		0.63	J		0.50U	U		2.5U	U		2.5U	U	
Methyl tert-butyl ether	0.50U	U		2.5U	U		2.5U	U										
1,1-Dichloroethane	0.32J	J		0.29J	J		1.1	J		0.50U	U		2.5U	U		2.5U	U	
cis-1,2-Dichloroethene	2.1	J		1.8	J		9.0	J		0.50U	U		2.0DJ	J		2.4DJ	J	
2-Butanone	5.0U	<b>UJ</b>		25U	<b>UJ</b>		25U	<b>UJ</b>										
Bromochloromethane	0.50U	U		2.5U	U		2.5U	U										
Chloroform	14			14	J		48E	J		0.50U	U		2.5U	U		2.5U	U	
1,1,1-Trichloroethane	0.50U	U		2.5U	U		2.5U	U										
Cyclohexane	0.50U	U		2.5U	U		2.5U	U										
Carbon tetrachloride	0.50U	U		2.5U	U		2.5U	U										
Benzene	0.50U	U		2.5U	U		2.5U	U										
1,2-Dichloroethane	0.50U	U		2.5U	U		2.5U	U										
Trichloroethene	92E	J		83E	J		260E	J		0.50U	U		57D			61D		
Methylcyclohexane	0.50U	U		2.5U	U		2.5U	U										

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274                      SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

**QUALIFIED DATA**  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location : 69				70			71			72			Y4NB3DL			Y4NB4DL		
Sample ID : Y4NC4				Y4NC5			Y4NC6			Y4NC7			5.0			5.0		
Collection Date : 3/16/2009				3/16/2009			3/16/2009			3/16/2009								
Dilution Factor : 1.0				1.0			1.0			1.0			5.0			5.0		
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,2-Dichloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
Bromodichloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
cis-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
4-Methyl-2-pentanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		25U	U		25U	U	
Toluene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
trans-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
1,1,2-Trichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
Tetrachloroethene	130E	J		120E	J		840E	J		0.34J	J		40D			44D		
2-Hexanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		25U	U		25U	U	
Dibromochloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
1,2-Dibromoethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
Chlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
Ethylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
o-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
m,p-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
Styrene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
Bromoform	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	UJ		2.5U	UJ	
Isopropylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
1,1,2,2-Tetrachloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	UJ		2.5U	U	
1,3-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
1,4-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
1,2-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
1,2-Dibromo-3-chloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	UJ		2.5U	UJ	
1,2,4-Trichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.5U	U		2.5U	U	
1,2,3-Trichlorobenzene	0.50U	UJ		0.50U	UJ		0.50U	UJ		0.50U	UJ		2.5U	U		2.5U	U	
Vinyl chloride-d3	3.9			4.0			4.1			3.8			3.7			3.9		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274 SDG No. : Y4NB2

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

Table 1A

QUALIFIED DATA  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location :	69			70			71			72			Y4NB3DL			Y4NB4DL		
Sample ID :	Y4NC4			Y4NC5			Y4NC6			Y4NC7			5.0			5.0		
Collection Date :	3/16/2009			3/16/2009			3/16/2009			3/16/2009								
Dilution Factor :	1.0			1.0			1.0			1.0								
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com									
Chloroethane-d5	4.6			4.9			3.8			4.7			3.7			4.7		
1,1-Dichloroethene-d2	26			25			60			3.5			4.3			4.5		
2-Butanone-d5	48			50			48			44			46			48		
Chloroform-d	6.0			6.2			7.8			5.4			5.3			5.6		
1,2-Dichloroethane-d4	5.6			6.0			5.7			5.4			5.7			5.5		
Benzene-d6	5.0			5.0			5.8			5.0			5.1			5.2		
1,2-Dichloropropane-d6	5.5			5.1			6.1			4.8			5.0			5.0		
Toluene-d8	5.0			4.8			5.8			4.8			4.8			5.1		
trans-1,3-Dichloropropene-d4	5.6			5.9			7.2			5.4			5.5			5.7		
2-Hexanone-d5	45			48			35			45			43			48		
1,1,2,2-Tetrachloroethane-d2	3.7			4.1			4.3			3.8			3.6			3.7		
1,2-Dichlorobenzene-d4	4.1			4.5			4.7			4.7			4.5			4.4		

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274 SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

QUALIFIED DATA

Analysis Type :

Trace Level Water Samples

Concentration in ug/L

for Trace Volatiles

Station Location :	Y4NC2DL			Y4NC4DL			Y4NC5DL			Y4NC6DL			Y4NC6MS			Y4NC6MSD		
Sample ID :	Y4NC2DL			Y4NC4DL			Y4NC5DL			Y4NC6DL			Y4NC6MS			Y4NC6MSD		
Collection Date :																		
Dilution Factor :	2.5			8.0			10.0			40.0			1.0			1.0		
Trace Volatiles	Result	Val	Com	Result	Val	Com												
Dichlorodifluoromethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Chloromethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Vinyl chloride	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Bromomethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Chloroethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Trichlorofluoromethane	2.3D			14D			22D			110D			74E	J		82E	J	
1,1-Dichloroethene	1.9D			43D			53D			280D	J		170E	J		190E	J	
1,1,2-Trichloro-1,2,2-trifluoroethane	7.1D			30D			63D			280D			210E	J		240E	J	
Acetone	13U	UJ		40U	UJ		50U	UJ		200U	UJ		5.0U	U		5.0U	U	
Carbon disulfide	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Methyl acetate	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Methylene chloride	1.3DBJ	U		4.0DB	U		5.0DB	U		20DB	U		0.50U	U		0.50U	U	
trans-1,2-Dichloroethene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.83	J		0.85	J	
Methyl tert-butyl ether	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,1-Dichloroethane	1.3U	U		4.0U	U		5.0U	U		20U	U		1.2	J		1.2	J	
cis-1,2-Dichloroethene	0.39DJ	J		2.2DJ	J		2.3DJ	J		19DJ	J		11	J		11	J	
2-Butanone	13U	UJ		40U	UJ		50U	UJ		200U	UJ		5.0U	UJ		5.0U	UJ	
Bromochloromethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Chloroform	0.31DJ	J		15D			14D			91D			55E	J		58E	J	
1,1,1-Trichloroethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Cyclohexane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Carbon tetrachloride	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Benzene	1.3U	U		4.0U	U		5.0U	U		20U	U		6.0			6.1		
1,2-Dichloroethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Trichloroethene	28D			70D			72D			310D			290E	J		330E	J	
Methylcyclohexane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274                      SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

**QUALIFIED DATA**  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location :	Y4NC2DL			Y4NC4DL			Y4NC5DL			Y4NC6DL			Y4NC6MS			Y4NC6MSD		
Sample ID :	2.5			8.0			10.0			40.0			1.0			1.0		
Collection Date :																		
Dilution Factor :																		
Trace Volatiles	Result	Val	Com	Result	Val	Com												
1,2-Dichloropropane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Bromodichloromethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
cis-1,3-Dichloropropene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
4-Methyl-2-pentanone	13U	U		40U	U		50U	U		200U	U		5.0U	U		5.0U	U	
Toluene	1.3U	U		4.0U	U		5.0U	U		20U	U		5.7			6.0		
trans-1,3-Dichloropropene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,1,2-Trichloroethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Tetrachloroethene	6.3D			74D			84D			680D			940E	J		1100E	J	
2-Hexanone	13U	U		40U	U		50U	U		200U	U		5.0U	U		5.0U	U	
Dibromochloromethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,2-Dibromoethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Chlorobenzene	1.3U	U		4.0U	U		5.0U	U		20U	U		4.9			5.3		
Ethylbenzene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
o-Xylene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
m,p-Xylene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Styrene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Bromoform	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
Isopropylbenzene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,1,2,2-Tetrachloroethane	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,3-Dichlorobenzene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,4-Dichlorobenzene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,2-Dichlorobenzene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,2-Dibromo-3-chloropropane	1.3U	<b>UJ</b>		4.0U	<b>UJ</b>		5.0U	<b>UJ</b>		20U	<b>UJ</b>		0.50U	U		0.50U	U	
1,2,4-Trichlorobenzene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	U		0.50U	U	
1,2,3-Trichlorobenzene	1.3U	U		4.0U	U		5.0U	U		20U	U		0.50U	<b>UJ</b>		0.50U	<b>UJ</b>	
Vinyl chloride-d3	4.7			4.9			4.2			4.9			3.8			3.9		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274 SDG No. : Y4NB2

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

Table 1A

QUALIFIED DATA  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location :	Y4NC2DL			Y4NC4DL			Y4NC5DL			Y4NC6DL			Y4NC6MS			Y4NC6MSD		
Sample ID :	Y4NC2DL			Y4NC4DL			Y4NC5DL			Y4NC6DL			Y4NC6MS			Y4NC6MSD		
Collection Date :																		
Dilution Factor :	2.5			8.0			10.0			40.0			1.0			1.0		
Trace Volatiles	Result	Val	Com	Result	Val	Com												
Chloroethane-d5	4.6			4.9			4.3			5.2			4.3			4.8		
1,1-Dichloroethene-d2	3.0			5.2			4.9			5.9			71			77		
2-Butanone-d5	34			38			33			38			43			49		
Chloroform-d	4.5			4.8			4.3			4.9			7.9			8.3		
1,2-Dichloroethane-d4	4.5			4.6			4.2			4.8			5.6			5.6		
Benzene-d6	4.9			5.2			4.6			5.2			5.7			6.1		
1,2-Dichloropropane-d6	5.0			5.3			4.8			5.3			5.6			6.2		
Toluene-d8	4.8			5.1			4.5			5.1			5.6			6.0		
trans-1,3-Dichloropropene-d4	4.7			4.6			4.3			4.7			6.8			7.2		
2-Hexanone-d5	39			42			39			46			38			34		
1,1,2,2-Tetrachloroethane-d2	4.4			4.7			4.3			4.9			4.1			4.3		
1,2-Dichlorobenzene-d4	5.2			5.7			5.0			5.8			4.8			4.6		

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274 SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

QUALIFIED DATA  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location : Sample ID : Collection Date : Dilution Factor :	Method Blank VBLKN6			Method Blank VBLKS6			Method Blank VBLKV5			Method Blank VBLKW5			Method Blank VHBLKS6			CRQL		
	1.0			1.0			1.0			1.0			1.0					
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com									
Dichlorodifluoromethane	0.50U	U		0.50U	U		0.50											
Chloromethane	0.50U	U		0.50U	U		0.50											
Vinyl chloride	0.50U	U		0.50U	U		0.50											
Bromomethane	0.50U	U		0.50U	U		0.50											
Chloroethane	0.50U	U		0.50U	U		0.50											
Trichlorofluoromethane	0.50U	U		0.50U	U		0.50											
1,1-Dichloroethene	0.50U	U		0.50U	U		0.50											
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U	U		0.50U	U		0.50											
Acetone	5.0U	<b>UJ</b>		5.0U	<b>UJ</b>		5.0U	U		5.0U	U		5.0U	<b>UJ</b>		5.0		
Carbon disulfide	0.50U	U		0.50U	U		0.50											
Methyl acetate	0.50U	U		0.50U	U		0.50											
Methylene chloride	0.32J	J		0.20J	J		0.50U	U		0.50U	U		0.88B			0.50		
trans-1,2-Dichloroethene	0.50U	U		0.50U	U		0.50											
Methyl tert-butyl ether	0.50U	U		0.50U	U		0.50											
1,1-Dichloroethane	0.50U	U		0.50U	U		0.50											
cis-1,2-Dichloroethene	0.50U	U		0.50U	U		0.50											
2-Butanone	5.0U	<b>UJ</b>		5.0U	<b>UJ</b>		5.0											
Bromochloromethane	0.50U	U		0.50U	U		0.50											
Chloroform	0.50U	U		0.50U	U		0.50											
1,1,1-Trichloroethane	0.50U	U		0.50U	U		0.50											
Cyclohexane	0.50U	U		0.50U	U		0.50											
Carbon tetrachloride	0.50U	U		0.50U	U		0.50											
Benzene	0.50U	U		0.50U	U		0.50											
1,2-Dichloroethane	0.50U	U		0.50U	U		0.50											
Trichloroethene	0.50U	U		0.50U	U		0.50											
Methylcyclohexane	0.50U	U		0.50U	U		0.50											

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

## ANALYTICAL RESULTS

Case No. : 38274 SDG No. : Y4NB2

Table 1A

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

QUALIFIED DATA  
Concentration in ug/LAnalysis Type : Trace Level Water Samples  
for Trace Volatiles

Station Location : Sample ID : Collection Date : Dilution Factor :	Method Blank VBLKN6 1.0			Method Blank VBLKS6 1.0			Method Blank VBLKV5 1.0			Method Blank VBLKW5 1.0			Method Blank VHBLKS6 1.0			CRQL		
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,2-Dichloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
Bromodichloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
cis-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
4-Methyl-2-pentanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0		
Toluene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
trans-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
1,1,2-Trichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
Tetrachloroethene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
2-Hexanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0		
Dibromochloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
1,2-Dibromoethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
Chlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
Ethylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
o-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
m,p-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
Styrene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
Bromoform	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50		
Isopropylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
1,1,2,2-Tetrachloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
1,3-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
1,4-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
1,2-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
1,2-Dibromo-3-chloropropane	0.50U	<b>UJ</b>		0.50U	<b>UJ</b>		0.50U	U		0.50U	<b>UJ</b>		0.50U	<b>UJ</b>		0.50		
1,2,4-Trichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50		
1,2,3-Trichlorobenzene	0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U		0.50		
Vinyl chloride-d3	4.5			5.0			4.9			4.4			4.6			NA		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

**ANALYTICAL RESULTS**

Case No. : 38274                      SDG No. : Y4NB2

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

**Table 1A**

**QUALIFIED DATA**  
**Concentration in ug/L**

**Analysis Type :** Trace Level Water Samples  
for Trace Volatiles

Station Location :	Method Blank VBLKN6			Method Blank VBLKS6			Method Blank VBLKV5			Method Blank VBLKW5			Method Blank VHBLKS6			CRQL		
Sample ID :	VBLKN6			VBLKS6			VBLKV5			VBLKW5			VHBLKS6					
Collection Date :																		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0					
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com									
Chloroethane-d5	4.6			5.2			5.3			4.1			5.0			NA		
<b>1,1-Dichloroethene-d2</b>	<b>2.9</b>			<b>2.9</b>			<b>3.1</b>			<b>3.4</b>			<b>2.9</b>			<b>NA</b>		
2-Butanone-d5	39			37			40			43			41			NA		
<b>Chloroform-d</b>	<b>4.7</b>			<b>4.8</b>			<b>5.4</b>			<b>5.6</b>			<b>4.8</b>			<b>NA</b>		
1,2-Dichloroethane-d4	4.7			4.8			5.5			5.7			4.8			NA		
<b>Benzene-d6</b>	<b>5.0</b>			<b>5.3</b>			<b>5.6</b>			<b>5.1</b>			<b>5.2</b>			<b>NA</b>		
1,2-Dichloropropane-d6	5.0			5.3			5.8			5.2			5.3			NA		
<b>Toluene-d8</b>	<b>5.0</b>			<b>5.2</b>			<b>5.5</b>			<b>5.1</b>			<b>5.0</b>			<b>NA</b>		
trans-1,3-Dichloropropene-d4	4.8			4.6			6.0			5.7			4.6			NA		
<b>2-Hexanone-d5</b>	<b>43</b>			<b>41</b>			<b>40</b>			<b>41</b>			<b>44</b>			<b>NA</b>		
1,1,2,2-Tetrachloroethane-d2	4.7			4.7			3.8			3.8			4.9			NA		
<b>1,2-Dichlorobenzene-d4</b>	<b>5.5</b>			<b>5.8</b>			<b>4.7</b>			<b>4.9</b>			<b>5.8</b>			<b>NA</b>		

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

**Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).**